

Corporate Environmental Programs General Electric Company 100 Woodlawn Avenue, Pittsfield, MA 01201

Transmitted via Federal Express

June 22, 2004

Mr. Dean Tagliaferro
On-Scene Coordinator
U.S. Environmental Protection Agency
c/o Weston Environmental Engineering
One Lyman Street
Pittsfield, MA 01201

Re: GE-Pittsfield/Housatonic River Site Newell Street Area I (GECD440) Restoration of Parcel J9-23-22

Dear Mr. Tagliaferro:

As you are aware, the General Electric Company (GE) is currently involved in the performance of EPA-approved removal actions at the Newell Street Area I Removal Action Area located in Pittsfield, Massachusetts. As part of the access negotiations prior to the initiation of removal actions at Parcel J9-23-22, GE agreed to certain owner-requested modifications concerning the final restoration surfaces for this property. This letter presents a brief summary of the proposed modifications to the EPA-approved Technical Drawings and an evaluation of the potential impact such changes may have on site drainage.

Prior to the initiation of the removal actions at Parcel J9-23-22, several existing surface cover types were present at that property, including the following:

- A gravel driveway/parking lot which extended from Newell Street to approximately 50 feet northwest of the rear building.
- Miscellaneous bituminous asphalt and concrete pads.
- Compacted earth, including a drainage swale located along the property line between Parcel J9-23-22 and J9-23-23 which extended from just south of the rear building to a riprap outlet channel at the rear of the property.

Following performance of the required soil removal activities and placement of backfill (as required), the final surface cover for the property will be restored as follows:

- The portion of the property located between the northern building and Newell Street will be restored with a compacted 12-inch processed gravel base followed by a two-inch layer of asphalt pavement.
- The portion of the previously unlined drainage swale extending from just south of the rear building to the riprap drainage swale at the rear of the property will be restored with six inches of compacted gravel and a two-inch layer of asphalt.

• The restored surface cover for the remainder of the property -- which includes the engineered barrier area -- will consist of a minimum six-inch compacted gravel layer. However, the area over the barrier will be restored with an 18-inch compacted gravel layer including a layer of geotextile located approximately six inches below grade, to serve as an indication when six inches of gravel have been displaced and maintenance activities are necessary.

To reflect these changes, Technical Drawings 6, 12, 13, and 14 of the August 2003 Final RD/RA Work Plan have been revised and included herein. In addition to these revisions, Technical Drawing 12A was developed to present certain restoration details associated with the drainage swale, among others.

Based on the owner-requested modifications to the surface cover types at Parcel J9-23-22 and as requested by EPA, GE has performed additional evaluations to determine the impact (if any) during future precipitation events, with an emphasis on the existing riprap outlet channel at the rear of the property and the recently restored riverbank. GE has analyzed the pre-construction and post-removal action hydraulic runoff conditions for this property to determine whether changes to the existing riprap outlet channel are appropriate.

Prior to the recently initiated soil removal activities, stormwater runoff from Parcel J9-23-22, along with runoff from adjacent contributing watershed areas, flowed to an unlined drainage swale located along the property boundary between Parcel J9-23-22 and J9-23-23. Flow conveyed by this swale continued into a riprap swale located at the northeast corner of the property. The riprap swale then conveyed the runoff to the aforementioned riprap outlet channel constructed within the southern riverbank of the East Branch of the Housatonic River.

As previously indicated, the final restoration surfaces at Parcel J9-23-22 will consist of compacted gravel and, in some areas (including a portion of the restored drainage swale), asphalt pavement. To determine the drainage impacts (if any) to the riprap outlet channel as a result of the proposed surface cover modifications, the 2-, 10-, and 25-year, 24-hour storm events were analyzed under existing (i.e., preconstruction) and post-restoration conditions for the watershed discharging to the riprap outlet channel. The following table summarizes this analysis:

	Peak Discharge (c	ubic feet per second).
Storm Type/Duration	Existing Conditions	Post-Restoration Conditions
2-year, 24-hour	2.71 cfs	3.18 cfs
10-year, 24-hour	5.62 cfs	6.16 cfs
25-year, 24-hour	6.76 cfs	7.30 cfs

As indicated above, the change in surface cover conditions associated with site restoration will result in a minor increase in peak discharge runoff to the riprap outlet channel. Based on site conditions observed on June 17, 2004, the riprap channel constructed within the riverbank (i.e., the portion located below the crest of the riverbank) appears to be well established with no apparent signs of instability. Considering the current condition of the outlet channel and the anticipated minimal increase in peak discharge, the bank portion of the outlet channel should remain stable following completion of the site restoration activities. However, GE proposes to restore the riprap swale upgradient of the outlet channel (i.e., the portion located above the crest of the riverbank) in accordance with Detail D on Technical Drawing 12A to better contain and convey runoff to the riprap outlet channel. Finally, to further improve flow control within the riprap swale and outlet channel, GE proposes to install a check dam at a location approximately 5 feet upgradient of the riverbank crest. The cross-section of this check dam is also included in Detail D on Technical Drawing 12A

Please feel free to contact me with any questions or comments regarding the information provided herein.

Sincerely,

Richard W. Gates

Remediation Project Manager

CRA/csc

Attachments
V:\GE_Pittsfield_CD_Newell_St_Area_NCorrespondence\41342196Ltr.doc

Susan Steenstrup, MDEP (2 copies)

Anna Symington, MDEP*

Rose Howell, EPA*

Holly Inglis, EPA

Dawn Jamros, Weston

Michael Carroll, GE*

Andrew Silfer, GE

Rod McLaren, GE

James Nuss, BBL

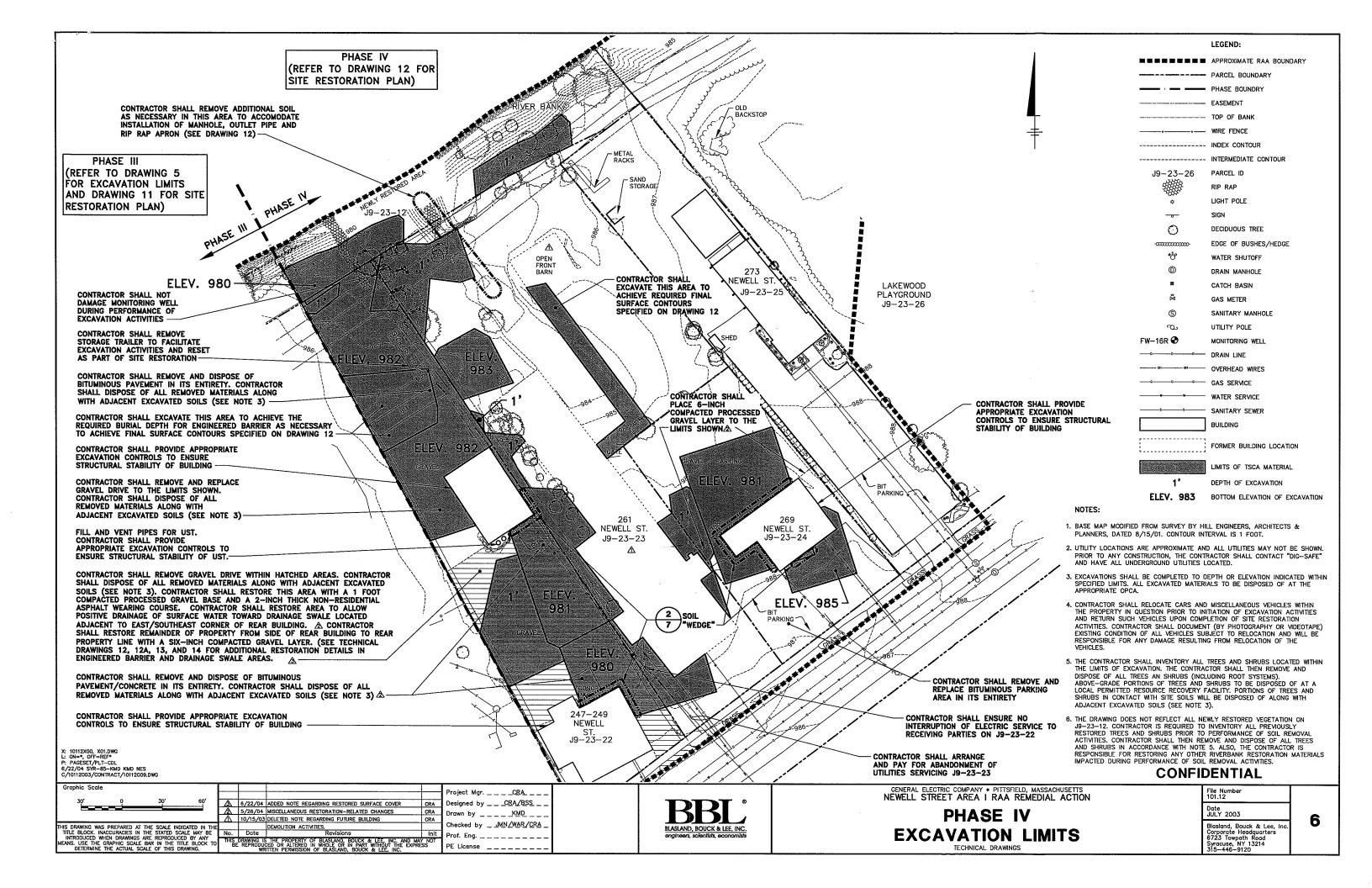
Corey Averill, BBL

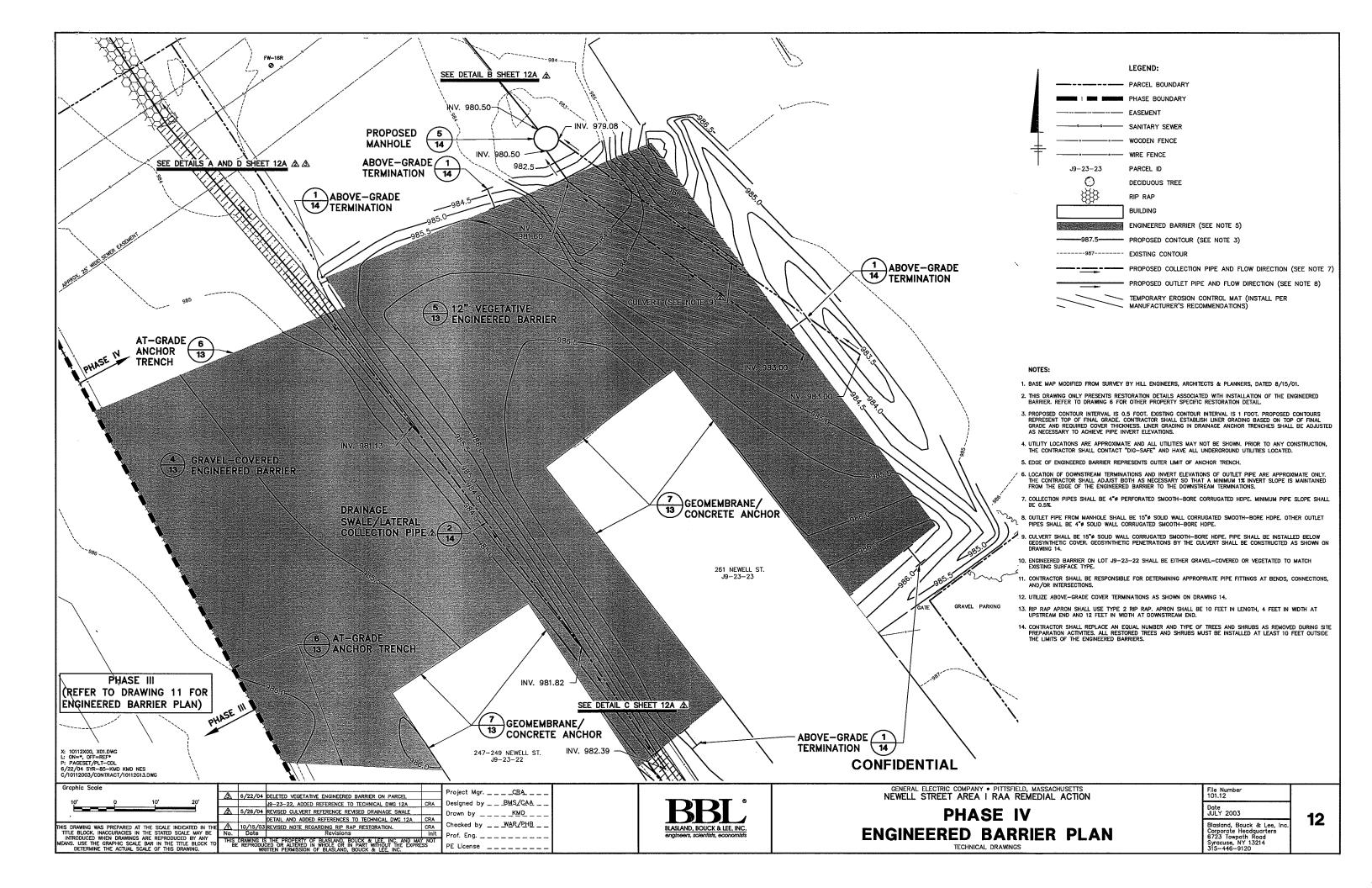
James Bieke, Shea & Gardner

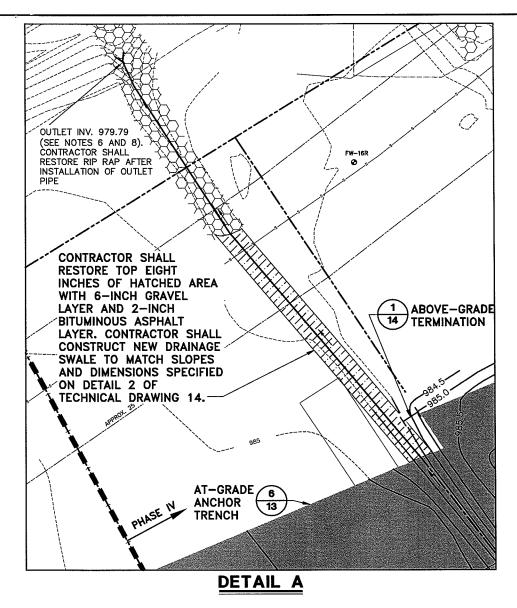
Public Information Repositories

GE Internal Repository

^{* (}cover letter only)





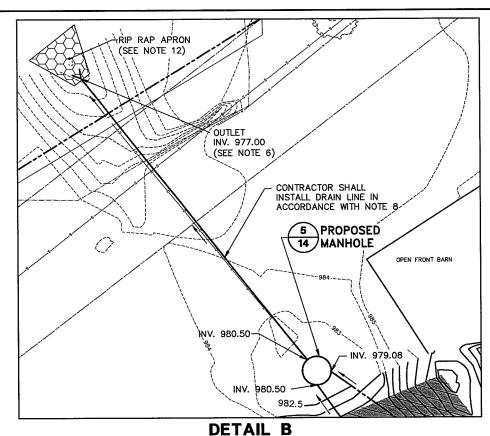


NOTES:

6/22/04 SYR-85-KMD KMD NES C/10112003/CONTRACT/10112G17.DWG

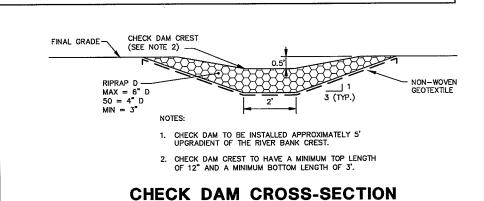
- 1. BASE MAP MODIFIED FROM SURVEY BY HILL ENGINEERS. ARCHITECTS & PLANNERS, DATED 8/15/01.
- 2. THIS DRAWING ONLY PRESENTS RESTORATION DETAILS ASSOCIATED WITH INSTALLATION OF THE ENGINEERED BARRIER, REFER TO DRAWING 6 FOR OTHER PROPERTY SPECIFIC RESTORATION DETAIL.
- 3. PROPOSED CONTOUR INTERVAL IS 0.5 FOOT. EXISTING CONTOUR INTERVAL IS 1 FOOT. PROPOSED CONTOURS REPRESENT TOP OF FINAL GRADE. CONTRACTOR SHALL ESTABLISH LINER GRADING BASED ON TOP OF FINAL GRADE AND REQUIRED COVER THICKNESS. LINER GRADING IN DRAINAGE ANCHOR TRENCHES SHALL BE ADJUSTED AS NECESSARY TO ACHIEVE PIPE INVERT ELEVATIONS.
- 4. UTILITY LOCATIONS ARE APPROXIMATE AND ALL UTILITIES MAY NOT BE SHOWN. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL CONTACT "DIG-SAFE" AND HAVE ALL UNDERGROUND UTILITIES LOCATED.
- EDGE OF ENGINEERED BARRIER REPRESENTS OUTER LIMIT OF ANCHOR TRENCH.
- 6. LOCATION OF DOWNSTREAM TERMINATIONS AND INVERT ELEVATIONS OF OUTLET PIPE ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL ADJUST BOTH AS NECESSARY SO THAT A MINIMUM 1% INVERT SLOPE IS MAINTAINED FROM THE EDGE OF THE ENGINEERED BARRIER TO THE DOWNSTREAM TECHNIA TIONS.
- 7. COLLECTION PIPES SHALL BE 4"Ø PERFORATEO SMOOTH-BORE CORRUGATED HDPE. MINIMUM PIPE SLOPE SHALL BE 0.5%.
- : 10112X00, X01.DWG : ON=*, OFF=REF* PAGESET/PLT-CDL

- 8. OUTLET PIPE FROM MANHOLE SHALL BE 15" SOUID WALL CORRUGATED SMOOTH-BORE HDPE. OTHER OUTLET PIPES SHALL BE 4" SOUID WALL CORRUGATED SMOOTH-BORE HDPE.
- 9, CULVERT SHALL BE 15" SOLID WALL CORRUGATED SMOOTH-BORE HOPE. PIPE SHALL BE INSTALLED BELOW GEOSYNTHETIC PENETRATIONS BY THE CULVERT SHALL BE CONSTRUCTED AS SHOWN ON
- ENGINEERED BARRIER ON LOT J9-23-22 SHALL BE EITHER GRAVEL-COVERED OR VEGETATED TO MATCH EXISTING SURFACE TYPE.
- 11. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING APPROPRIATE PIPE FITTINGS AT BENDS, CONNECTIONS, AND/OR INTERSECTIONS.
- 12. UTILIZE ABOVE-GRADE COVER TERMINATIONS AS SHOWN ON
- 13. RIP RAP APRON SHALL USE TYPE 2 RIP RAP. APRON SHALL BE 10 FEET IN LENGTH, 4 FEET IN WIDTH AT UPSTREAM END AND 12 FEET IN WIDTH AT DOWNSTREAM
- 14. CONTRACTOR SHALL REPLACE AN EQUAL NUMBER AND TYPE OF TREES AND SHRUBS AS REMOVED DURING SITE PREPARATION ACTIVITIES. ALL RESTORED TREES AND SHRUBS MITS DE INSTALLED AT LEAST 10 FEET OUTSIDE THE LUMITS OF THE ENGINEERED BARRIERS.



1 ABOVE-GRADE 247-249 NEWELL ST. J9-23-22 14 TERMINATION CONTRACTOR SHALL 261 NEWELL ST. J9-23-23 RESTORE TOP EIGHT INCHES OF HATCHED AREA WITH 6-INCH GRAVEL -INV. 982.39 LAYER AND 2-INCH **BITUMINOUS ASPHALT** LAYER. CONTRACTOR SHALL CONSTRUCT NEW DRAINAGE SWALE TO MATCH SLOPES AND DIMENSIONS SPECIFIED ON **DETAIL 2 OF TECHNICAL** DRAWING 14.-CONTRACTOR SHALL RESTORE AREA TO ALLOW POSITIVE DRAINAGE OF SURFACE WATER TOWARD DRAINAGE SWALE LOCATED ADJACENT TO EAST/SOUTHEAST CORNER OF REAR BUILDING.

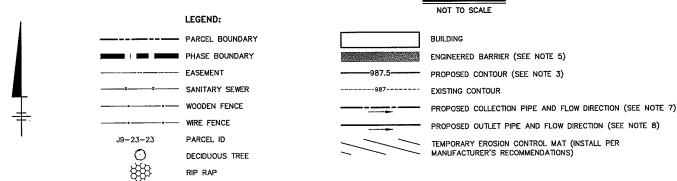
DETAIL C



DRAINAGE SWALE FINAL GRADE-INVERT (SEE NOTE RIPRAP D MAX = 6" D NON-WOVEN GEOTEXTILE (SEE NOTE 2) 50 = 4"DMIN = 3(MAINTAIN 3" MINIMUM SEE NOTE 3) ENGINEERED BARRIES NOTES: 1. DITCH SHALL HAVE A MINIMUM SLOPE OF 1% 2. GEOTEXTILE TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS, GEOTEXTILE TO BE OVERLAPPED ONTO EXISTING GEOTEXTILE AT RIVER BANK CREST A MINIMUM OF 18". 3. CONTRACTOR SHALL ENSURE THAT THE DRAINAGE PIPE FOR THE ENGINEERED BARRIER IS NOT DAMAGED DURING CONSTRUCTION OF THE DRAINAGE SWALE.

DRAINAGE SWALE CROSS-SECTION

DETAIL D A



CONFIDENTIAL

roject Mgr. _ _ _CRA_ _ _ Designed by ____BMS/CAA _ Drawn by ____KMD___. Checked by _ _ WAR/PHB _ THIS DRAWING WAS PREPARED AT THE SCALE INDICATED IN THE THE BLOCK. INACCURACIES IN THE STATED SCALE MAY BE INTRODUCED WHEN DRAWINGS ARE REPRODUCED BY ANY THIS INDIQUIC IS THE SHARED TO Prof. Eng. THIS DRAWING IS THE PROPERTY OF BLASLAND, BOUCK & LEE, INC. AND MAY NO BE REPRODUCED OR ALFERED IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF BLASLAND, BOUCK & LEE, INC. PE License

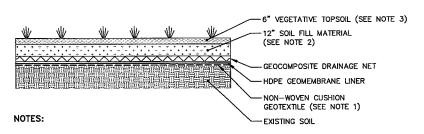
GENERAL ELECTRIC COMPANY • PITTSFIELD, MASSACHUSETTS
NEWELL STREET AREA I RAA REMEDIAL ACTION PHASE IV DRAINAGE SWALE AND OUTLET PIPE DETAILS

TECHNICAL DRAWINGS

Date JULY 2003 Blasland, Bouck & Lee, in Corporate Headquarters 6723 Towpath Road Syracuse, NY 13214 315-446-9120

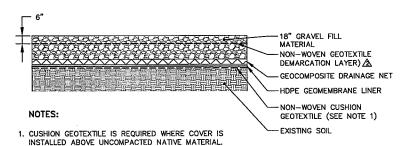
File Number 101.12

12A



- 1. CUSHION GEOTEXTILE IS REQUIRED WHERE COVER IS INSTALLED ABOVE UNCOMPACTED NATIVE MATERIAL.
- 2. AT CONTRACTOR'S DISCRETION, SOIL FILL MATERIAL MAY BE REPLACED WITH TOPSOIL.
- ⚠ 3. 5 INCH VEGETATIVE TOPSOIL LAYER TO BE REPLACED BY 4 INCH TOPSOIL LAYER AND SOD WHERE NOTED

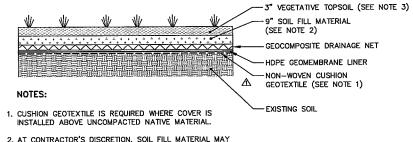




-2" BITUMINOUS ASPHALT WEARING SURFACE —4" BITUMINOUS ASPHALT BASE COURSE 12" SUBBASE COURSE GEOCOMPOSITE DRAINAGE NET HDPE GEOMEMBRANE LINER NON-WOVEN CUSHION GEOTEXTILE (SEE NOTE 1) NOTES:

1. CUSHION GEOTEXTILE IS REQUIRED WHERE COVER IS INSTALLED ABOVE UNCOMPACTED NATIVE MATERIAL.

ASPHALT-COVERED ENGINEERED BARRIER



- BE REPLACED WITH TOPSOIL.
- 3. PRIOR TO INSTALLATION OF THIS TYPE OF BARRIER, THE CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING VEGETATION.

COLLECTION PIPE

(SEE NOTE 2) -

TOPSOIL, GRAVEL OR ASPHALT

SOIL FILL, GRAVEL OR SUBBASE

GEOCOMPOSITE DRAINAGE

HDPE GEOMEMBRANE LINER

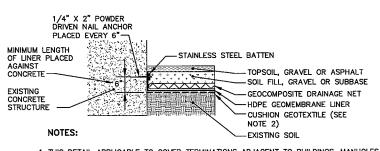
CUSHION GEOTEXTILE

(SEE NOTE 4)

12" VEGETATIVE ENGINEERED BARRIER



NOT TO SCALE



- 1. THIS DETAIL APPLICABLE TO COVER TERMINATIONS ADJACENT TO BUILDINGS, MANHOLES OR CONCRETE SLABS.
- 2. CUSHION GEOTEXTILE IS REQUIRED WHERE COVER IS INSTALLED ABOVE UNCOMPACTED NATIVE MATERIAL.
- 3. CONTRACTOR SHALL EVALUATE THE FEASIBILITY OF USING THIS BATTEN STRIP METHOD ON THE MANHOLE PRIOR TO PROCEEDING.

GEOMEMBRANE/CONCRETE ANCHOR NOT TO SCALE

GENERAL NOTES:

- 1. GEOSYNTHETICS ARE SHOWN AT AN EXAGGERATED SCALE FOR CLARITY.
- "AT-GRADE" REFERS TO ENGINEERED BARRIERS THAT ARE RECESSED INTO EXISTING GRADE.

P: PAGESET/PLT-CDL E) 6/22/04 SYR-85-KMD ROC-85-SLM SYR-85-GMS, NES

C/10112003/CONTRACT/10112G05.DWG Project Mgr. _ _ _CRA_ _ _ Designed by _ _ BMS/CAA NOT TO SCALE Drawn by ____J<u>ER_</u>_. HIS DRAWING WAS PREPARED AT THE SCALE INDICATED IN THE TITLE BLOCK. INACCURACIES IN THE STATED SCALE MAY BE INTRODUCED WHEN DRAWINGS ARE REPRODUCED BY ANY BEANS. USE THE GRAPHIC SCALE BAR IN THE TITLE BLOCK TO DETERMINE THE ACTUAL SCALE OF THIS DRAWING. 2 6/22/04 REVISED DETAIL 4 Checked by _ JMN/WAR/PHB. Prof. Eng. _ _ _ _ _ _ _ PE License

EXISTING SOIL NOTES: 1. THIS DETAIL APPLICABLE TO AT-GRADE COVER TERMINATIONS WITH COLLECTION PIPES. 2. COLLECTION PIPE SHALL BE 4" PERFORATED SMOOTH-BORE CORRUGATED HDPE 3. ANCHOR TRENCH SHALL BE BACKFILLED WITH FILTER STONE WRAPPED IN NON-WOVEN GEOTEXTILE. 4. CUSHION GEOTEXTILE IS REQUIRED WHERE COVER IS INSTALLED ABOVE UNCOMPACTED NATIVE MATERIAL. 5. ANCHOR TRENCH DEPTH MAY EXCEED 12-INCH MINIMUM AS NECESSARY TO ACHIEVE COLLECTION PIPE INVERTS SHOWN ON DRAWINGS 9 THROUGH 12.

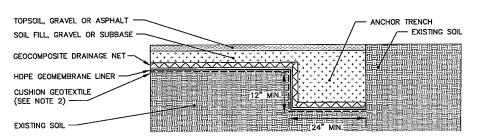
SEE NOTE 5

AT-GRADE DRAINAGE ANCHOR TRENCH

- EXISTING PAVEMENT SECTION (THICKNESS UNKNOWN) 2" BITUMINOUS ASPHALT WEARING SURFACE SAWCUT EXISTING EDGE OF ASPHALT -4" BITUMINOUS ASPHALT BASE COURSE - TACK COAT SAWCUT EDGE 12" SUBBASE COURSE GEOCOMPOSITE DRAINAGE NET HDPE GEOMEMBRANE LINER - CUSHION GEOTEXTILE (SEE NOTE 1) ANCHOR TRENCH NOTES:

1. CUSHION GEOTEXTILE IS REQUIRED WHERE COVER IS INSTALLED ABOVE UNCOMPACTED NATIVE MATERIAL.

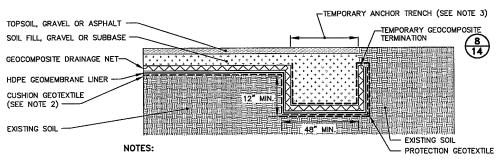
AT-GRADE ASPHALT COVER TIE-IN



NOTES:

- 1. THIS DETAIL APPLICABLE TO AT-GRADE COVER TERMINATIONS WITHOUT COLLECTION PIPES.
- 2. CUSHION GEOTEXTILE IS REQUIRED WHERE COVER IS INSTALLED ABOVE UNCOMPACTED NATIVE





- 1. THIS DETAIL APPLICABLE TO TEMPORARY AT-GRADE COVER TERMINATIONS.
- 2. CUSHION GEOTEXTILE IS REQUIRED WHERE COVER IS INSTALLED ABOVE UNCOMPACTED NATIVE MATERIAL.
- UPON CONTINUATION OF ENGINEERED BARRIER CONSTRUCTION, THE CONTRACTOR SHALL CAREFULLY EXCAVATE TEMPORARY ANCHOR TRENCH BACKFILL, DISCARD PROTECTION GEOTEXTILE, AND BACKFILL TEMPORARY ANCHOR TRENCH.
- 4. IT IS RECOMMENDED THAT THE CONTRACTOR MARK OR RECORD THE LOCATION OF THE TEMPORARY ANCHOR TRENCH TO MINIMIZE DAMAGE TO THE GEOSYNTHETICS FOR FUTURE CONTINUATION OF ENGINEERED BARRIER.

TEMPORARY AT-GRADE TERMINATION NOT TO SCALE

CONFIDENTIAL

GENERAL ELECTRIC COMPANY • PITTSFIELD, MASSACHUSETTS
NEWELL STREET AREA I RAA REMEDIAL ACTION

COVER DETAILS

TECHNICAL DRAWINGS

JULY 2003

Blasiand, Bouck & Lee, Ind Corporate Headquarters 6723 Towpoth Road Syracuse, NY 13214 315-446-9120

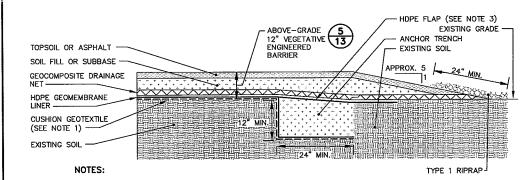
(9`

-NON-WOVEN GEOTEXTILE ANCHOR TRENCH

BACKELL

(SEE NOTE 3)

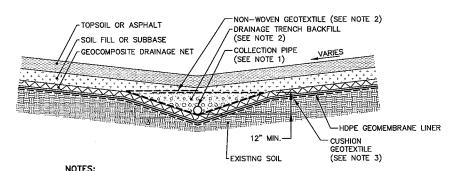
EXISTING SOIL



- 1. THIS DETAIL APPLICABLE TO ABOVE-GRADE COVER TERMINATIONS
- 2. CUSHION GEOTEXTILE IS REQUIRED WHERE COVER IS INSTALLED ABOVE NATIVE MATERIAL.
- 3. THE CONTRACTOR SHALL INSTALL AN HDPE FLAP TO THE TOP OF THE LINER TO MINIMIZE PONDING WATER IN THE ANCHOR TRENCH. THE FLAP SHALL BE OF THE SAME MATERIAL AS THE LINER, BE LARGE ENOUGH TO SPAN THE ANCHOR TRENCH, AND BE CONTINUOUSLY WELDED TO THE TOP OF THE LINER, PRIOR TO INSTALLING THE FLAP, THE CONTRACTOR SHALL TERMINATE THE LINER IN THE ANCHOR TRENCH AND BACKFILL THE ANCHOR TRENCH.

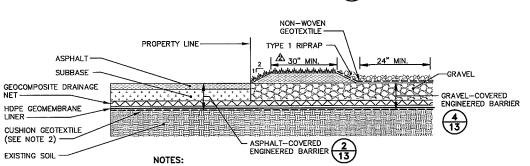
ABOVE-GRADE TERMINATION

NOT TO SCALE



- 1. COLLECTION PIPE SHALL BE 4" PERFORATED SMOOTH BORE CORRUGATED HDPE.
- DRAINAGE TRENCH TO BE BACKFILLED WITH FILTER STONE WRAPPED IN NON-WOVEN GEOTEXTILE. GEOTEXTILE SEAM TO BE SEWN.
- CUSHION GEOTEXTILE IS REQUIRED WHERE COVER IS INSTALLED ABOVE NATIVE MATERIAL.

LATERAL COLLECTION PIPE



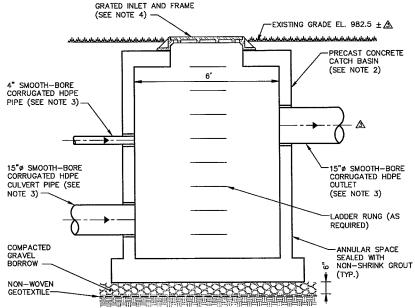
- 1. SOIL BERM SHALL BE COMPOSED OF TOPSOIL AND SOD.
- 2. CUSHION GEOTEXTILE IS REQUIRED WHERE COVER IS INSTALLED ABOVE NATIVE MATERIAL.



GEOCOMPOSITE DRAINAGE NET —2" BITUMINOUS ASPHALT SWALE (SEE -6" GRAVEL CONTROL MAT NOTE 5)-CUSHION GEOTEXTILE ABOVE-GRADE ENGINEERED_ (SEE NOTE 4) APPROX. BARRIER 5 T-GRADE 13 ENGINEERED TOPSOIL -NON-WOVEN SOIL FILL DRAINAGE TRENCH BACKFILL (SEE NOTE 3) COLLECTION PIPE (SEE NOTE 2) NOTES:

- THIS DETAIL APPLICABLE TO DRAINAGE SWALES WITH A COLLECTION PIPE.
- 2. COLLECTION PIPE SHALL BE 4"Ø PERFORATED SMOOTH-BORE CORRUGATED HDPE.
- DRAINAGE TRENCH SHALL BE BACKFILLED WITH FILTER STONE WRAPPED IN NON-WOVEN GEOTEXTILE. GEOTEXTILE SEAM TO BE SEWN.
- 4. CUSHION GEOTEXTILE IS REQUIRED WHERE COVER IS INSTALLED ABOVE NATIVE MATERIAL.
- 5. PAVED PORTION OF DRAINAGE SWALE SHALL BE FIVE FEET IN WIDTH AND CENTERED ON COLLECTION PIPE.

DRAINAGE SWALE/LATERAL COLLECTION PIPE

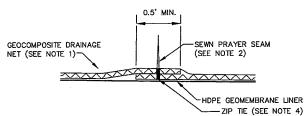


- 1. REFER TO DRAWING 12 FOR APPROXIMATE LOCATION OF CATCH BASIN
- 2. PRECAST CONCRETE MANHOLE SHALL BE RATED FOR H-20 LOADING
- 3. REFER TO DRAWING 12 FOR INVERT ELEVATIONS.
- 4. GRATED INLET AND FRAME SHALL BE RATED FOR H-20 LOADING. CONTRACTOR TO DETERMINE APPROPRIATE SIZE AND CONFIGURATION. GRATE SHALL BE CAPABLE OF PASSING 1 CFS WITH INCH OF HEAD. TOP OF GRATE SHALL BE LOCATED APPROXIMATELY 2 INCHES ABOVE GRADE. A

MANHOLE DETAIL

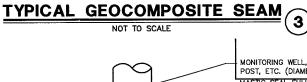
GENERAL NOTES:

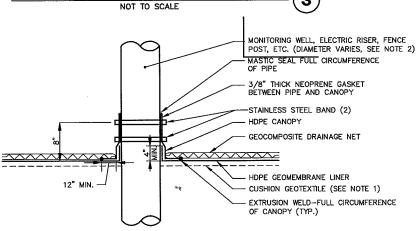
- 1. GEOSYNTHETICS ARE SHOWN AT AN EXAGGERATED SCALE FOR CLARITY.
- 2. "ABOVE-GRADE" REFERS TO ENGINEERED BARRIERS THAT ARE CONSTRUCTED ON TOP OF EXISTING GRADE.
- 3. "AT-GRADE" REFERS TO ENGINEERED BARRIERS THAT ARE RECESSED INTO EXISTING GRADE.



NOTES:

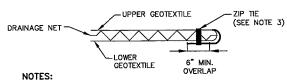
- 1. ALL GEOCOMPOSITE SHALL SHINGLE DOWNSLOPE.
- 2. THE TOP GEOTEXTILE COMPONENTS OF THE TWO GEOCOMPOSITE LAYERS SHALL BE PEELED BACK SO THAT A PRAYER SEAM MAY BE SEWN ABOVE THE GEOCOMPOSITE OVERLAP.
- 3. IF GEOTEXTILE IS UNABLE TO BE PEELED BACK WITHOUT CAUSING DAMAGE, A PATCH OF GEOTEXTILE SHALL BE HEAT BONDED TO THE TOP GEOTEXTILE LAYER OF THE OVER THE SEAM.
- 4. ZIP TIES SHALL BE PLACED EVERY 5' ALONG ADJACENT PANELS AND EVERY 6" ALONG BUTT





- 1. CUSHION GEOTEXTILE IS REQUIRED WHERE COVER IS INSTALLED ABOVE NATIVE MATERIAL.
- 2. THIS DETAIL MAY BE USED FOR OTHER PENETRATIONS THROUGH THE GEOSYNTHETICS.





- 1. THIS DETAIL APPLICABLE TO TEMPORARY TERMINATION OF GEOSYNTHETICS, WHERE NECESSARY.
- DRAINAGE NET AND LOWER GEOTEXTILE SHALL BE CUT SO THAT THE UPPER GEOTEXTILE MAY BE WRAPPED AROUND THE END OF THE GEOCOMPOSITE.
- 3. ZIP TIES SHALL BE PLACED EVERY 5' ALONG THE EDGES OF THE GEOCOMPOSITE.

TEMPORARY GEOCOMPOSITE TERMINATION NOT TO SCALE

CONFIDENTIAL

GENERAL ELECTRIC COMPANY • PITTSFIELD, MASSACHUSETTS
NEWELL STREET AREA I RAA REMEDIAL ACTION

COVER DETAILS

Date JULY 2003 Blasland, Bouck & Lee, I

File Numbe 101.12

L: ON=*, OFF=NEF* P: PAGESET/PLT-CDL 5/27/04 SYR-85-KMD ROC-85-SLM SYR-85-GMS LAF KMD C/10112003/CONTRACT/10112G11.DWG NOT TO SCALE 3 5/26/04 REVISED DETAILS 2 AND 5 10/15/03 REVISED DETAIL 7. CRA THIS DRAWING WAS PREPARED AT THE SCALE INDICATED IN THE TITLE BLOCK. INACCURACIES IN THE STATED SCALE MAY BE INTRODUCED WHEN DRAWINGS ARE REPRODUCED BY ANY WEANS. USE THE GRAPHIC SCALE BAR IN THE TITLE BLOCK TO DETERMINE THE ACTUAL SCALE OF THIS DRAWING. E \(\frac{\Lambda}{2} \) 9/24/03 REVISED DETAIL 1 AND ADDED NOTE 3. No. Date Revisions

Project Mgr. _ _ _ _CRA_ _ esigned by _ _ <u>BMS/CAA</u> Drawn by _____JER_ Checked by _ JMN/WAR/PHB. Prof. Eng. _ _ _ _ _ _ PE License _____

BLASLAND, BOUCK & LEE, INC

TECHNICAL DRAWINGS